

SAMPLING AND ESTIMATION DETAILS FOR THE RHODE ISLAND PORTION OF
THE NATIONAL INVENTORY OF SOIL AND WATER CONSERVATION NEEDS

BU-190-M

Thomas M. Beetle

July, 1965

Abstract

This paper provides some details on the sampling and estimation procedures for each county in Rhode Island. It is intended as a supplement to BU-180-M.

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The sampling and estimation procedures for Rhode Island followed the procedures described in BU-180-M. An increased sampling rate of 4% was used in some land resource units.

The four numbers under the county name in the following tables denote sample design, sample unit size, sampling rate, and estimation procedure according to the following code:

First
Number

Sample Design

1	Stratified within county
2	Stratified within land resource unit within county
3	Combination of Code 1 and Code 2

Second
Number

Sample Size

1	100 acres
2	250 acres
3	400 acres

Third
Number

Approximate sampling rate percentage

Fourth
Number

Estimation Procedure

1	Single expansion ratio for entire county
2	Separate expansion ratio for each land resource unit in the county

Water estimates are excluded from the River Basin estimates in all counties.

BRISTOL COUNTY, RHODE ISLAND

2, 1, 2*, 1

Adjusted Census Ac.

16,000

Adjusted Sample Ac.

484

Estimated Ac.

15,998

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	925	198	5,388	2,743	6,710	33

River Basin - New England Drainage Basin

011900 - Small coastal watersheds

Estimated Ac.

15,965

Notes: Error in assigning LRU's. All samples were assigned B2f3, but sample 2a should have been LRU Urban.

*LRU B2f3 was sampled at the 4% rate.

KENT COUNTY, RHODE ISLAND

2, 1, 2*, 1

Adjusted Census Ac.

109,902

Adjusted Sample Ac.

3,500

Estimated Ac.

109,897

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	2,667	3,644	85,055	5,779	11,305	1,444

River Basin - New England Drainage Basin

010910 - Quinebaug

011900 - Small coastal watersheds

Estimated Ac.

12,560

95,893

Excluded Acreage:

Federal land 178

Notes: *LRU's B2e1, B2e3, and B2f1 were sampled at the 4% rate.

NEWPORT COUNTY, RHODE ISLAND

2, 1, 2*, 1

Adjusted Census Ac.

73,600

Adjusted Sample Ac.

2,407

Estimated Ac.

73,605

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	19,600	7,216	21,743	17,553	6,605	887

River Basin - New England Drainage Basin

011900 - Small coastal watersheds

Estimated Ac.

72,718

Notes: *LRU's B2b6, B2f1, and B2f3 were sampled at the 4% rate.

PROVIDENCE COUNTY, RHODE ISLAND

2, 1, 2, 2

Adjusted Census Ac.

270,080

Adjusted Sample Ac.

5,101

Estimated Ac.

270,093

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	10,536	4,938	170,496	17,002	62,760	4,382

River Basin - New England Drainage Basin

Estimated Ac.

010910 - Quinebaug

21,408

011900 - Small coastal watersheds

244,303

WASHINGTON COUNTY, RHODE ISLAND

2, 1, 2, 1

Adjusted Census Ac.

202,522

Adjusted Sample Ac.

3,845

Estimated Ac.

202,513

<u>Land Use:</u>	<u>Cropland</u>	<u>Pasture</u>	<u>Forest</u>	<u>Other</u>	<u>Urban</u>	<u>Water</u>
<u>Estimated Ac.:</u>	17,488	4,797	144,257	21,224	12,220	2,528

River Basin - New England Drainage Basin

Estimated Ac.

011900 - Small coastal watersheds

199,985

Excluded Acreage:

Federal land 4,838